## Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

## Listing of Claims:

1. (Currently Amended) An access restriction information setting method which sets up access restriction information on a storage device, in a storage area network system having the storage device which determines whether or not an access request to a volume is permitted in accordance with access restriction information which is set up on a port which receives the request, and a plurality of host computers which transmit access requests to said storage device through a first network, comprising:

a first step for obtaining first access restriction information and information of a volume which are set up on each port of a first storage device, through a second network, said first access restriction information including information of access permission from a first host computer and access denial from a second host computer:

a second step for obtaining attribute information including a port type and a status of utilization of each port of a second storage device, from said second storage device through said second network;

a third step for selecting a target port of said second storage device which is utilized for reception of an access request to a volume of said first storage device from said first host computer; and

a fourth step for setting up, on the target port of said second storage device which is selected in said third step, second access restriction information based on said first access restriction information of a port of said first storage device to which a volume, of which the port is utilized for an access, is assigned so that said first host computer is permitted to access said first storage device via the target port of said firetsecond storage device, while said second host computer is not permitted to access said first storage device via the target port of said second storage device.

2. (Previously Presented) An access restriction information setting method according to Claim 1, wherein

said third step selects an initiator port which is utilized for transmission of an access request to a volume of said first storage device from said second storage device and

said fourth step sets up, on the target port of said second storage device which is selected in said third step, the second access restriction information of the port of said first storage device to which the volume, of which the port is utilized for an access, is assigned, and permits only an access request to the first access restriction information of said first storage device to which the volume is assigned

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from the initiator port of said second storage device which is selected in said third step.

(Previously Presented) An access restriction information setting method according to Claim 1, wherein

said first step obtains the first access restriction information which is set up on each port of a first storage device and information of a volume, from said first storage device through said second network.

4. (Previously Presented) An access restriction information setting method according to Claim 1, wherein

said first step specifies the first access restriction information which is set up on each port of a first storage device and information of the volume, by obtaining information of a port of one of said host computers which is utilized for an access to the volume of said first storage device and information of the port of said first storage device, from said one of said host computers through said second network.

(Original) An access restriction information setting method according to Claim 1, further comprising:

a fifth step for changing a port of said first storage device which is associated with each mount point of a file system of said host computer and a volume which is

assigned to the port, to a port of said second storage device which is utilized for an access to the volume and a volume which is defined on the port.

(Previously Presented) An access restriction information setting method according to Claim 1, wherein

said first storage device sets up first access restriction information on each port, by use of a first management table in which an information identifier of a volume and a source port of an access to be permitted are listed with a LUN unit with respect to each port, and

said second storage device sets up second access restriction information on each port, by use of a second management table in which a LUN and an identifier of a volume are listed with a group unit of source ports of an access to be permitted with respect to each port, and

said first step obtains said first management table, and

said fourth step prepares said second management table as to each port of said second storage device which is selected in said third step, on the basis of a listed content of said first management table which is obtained in said first step as to each port of said first storage device to which a volume, of which said port is utilized for an access, is assigned, and updates said second management table of said second storage device.

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 (Previously Presented) An access restriction information setting method according to Claim 1, wherein

in case that one of said host computers has a plurality of paths which are used for an access to the same volume, a process of said fourth step to the volume is carried out at least twice separately to said plurality of paths.

 (Original) An access restriction information setting method according to Claim 1, wherein

said second network is different from said first network.

9. (Previously Presented) An access restriction information setting apparatus which sets up access restriction information on a storage device, in a storage area network system having the storage device which determines whether or not an access request to a volume is permitted in accordance with access restriction information which is set up on a port which receives the request, and in a plurality of host computers which transmit access requests to said storage device through a first network, comprising:

an obtaining unit which obtains first access restriction information and information of a volume which are set up on each port of a first storage device, and attribute information including a port type and a status of utilization of each port of a second storage device, through a second network, said first access restriction

information including information of access permission from a first host computer and access denial from a second host computer;

a selecting unit which selects a target port of said second storage device which is utilized for reception of an access request to a volume of said first storage device from said host computer; and

a setting unit which sets up, on the target port of said second storage device which is selected in said selecting unit, second access restriction information based on said first access restriction information of a port of said first storage device to which a volume, of which the port is utilized for an access, is assigned so that said first host computer is permitted to access said first storage device via the target port of said second storage device, while second host computer is not permitted to access said first storage device via the target port of said second storage device.

10. (Previously Presented) An access restriction information setting system having first and second storage devices which determine whether or not an access request to a volume is permitted in accordance with access restriction information which is set up on a port which receives the request, a plurality of host computers which transmit access requests to said first and second storage devices through a first network, and an access restriction information setting device which is connected to said first and second storage devices through a second network, wherein

said access restriction information setting device comprising:

an obtaining unit which obtains first access restriction information and information of a volume which are set up on each port of said first storage device, and attribute information including a port type and a status of utilization of each port of said second storage device, through a second network, said first access restriction information including information of access permission from a first host computer and access denial from a second host computer:

selecting unit which selects a target port of said second storage device which is utilized for reception of an access request to a volume of said first storage device from said host computer; and

setting unit which sets up, on the target port of said second storage device which is selected in said selecting unit, second access restriction information based on said first access restriction information of a port of said first storage device to which a volume, of which the port is utilized for an access, is assigned so that said first host computer is permitted to access said first storage device via the target port of said second storage device, while said second host computer is not permitted to access said first storage device via the target port of said second storage device.

11. (Previously Presented) A computer-readable program for setting access restriction information on a storage device, in a storage area network system having the storage device which determines whether or not an access request to a volume is permitted in accordance with access restriction information which is set up on a

port which receives the request, and a plurality of host computers which transmit access requests to said storage device through a first network, wherein said program causes a computer to execute:

a first step for obtaining first access restriction information and information of a volume which are set up on each port of a first storage device, through a second network, said first access restriction information including information of access permission from a first host computer and access denial from a second host computer:

a second step for obtaining attribute information including a port type and a status of utilization of each port of a second storage device, from said second storage device through said second network;

a third step for selecting a target port of said second storage device which is utilized for reception of an access request to a volume of said first storage device from said host computer; and

a fourth step for setting up, on the target port of said second storage device which is selected in said third step, second access restriction information based on said first access restriction information of a port of said first storage device to which a volume, of which the port is utilized for an access, is assigned so that said first host computer is permitted to access said first storage device via the target port of said second storage device, while said second host computer is not permitted to access said first storage device via the target port of said second storage device.

12. (Previously Presented) An access restriction information setting method in which, in a storage area network system having a storage device which determines whether or not an access request to a volume is permitted in accordance with access restriction information which is set up on a port which receives the request, and a plurality of host computers which transmit access requests to said storage device through a first network, an access restriction information setting device which is connected to said storage device through a second network sets up access restriction information on said storage device, wherein

said access restriction information setting device:

obtains first access restriction information and information of a volume which are set up on each port of a first storage device, through said second network, said first access restriction information including information of access permission from a first host computer and access denial from a second host computer.

obtains attribute information including a port type and a status of utilization of each port of a second storage device, from said second storage device through said second network,

selects a target port of said second storage device which is utilized for reception of an access request to a volume of said first storage device from said host computer, and

sets up, on the target port of said second storage device which is selected in said selecting step, second access restriction information based on said first access restriction information of a port of said first storage device to which a volume, of which the port is utilized for an access, is assigned so that said first host computer is permitted to access said first storage device via the target port of said second storage device, while said second host computer is not permitted to access said first

storage device via the target port of said second storage device.

13. (Previously Presented) An access restriction information setting apparatus which sets up access restriction information on a storage device, in a storage area network system having the storage device which determines whether or not an access request to a volume is permitted in accordance with access restriction information which is set up on a port which receives the request, and a plurality of host computers which transmit access requests to said storage device through a first network, comprising:

a network I/F unit which is utilized for connecting to said second network, and a calculation unit.

wherein, said calculation unit:

obtains first access restriction information and information of a volume which are set up on each port of a first storage device, from said first storage device and attribute information including a port type and a status of utilization of each port of a

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second storage device, from said second storage device, through said network I/F unit, said first access restriction information including information of access permission from a first host computer and access denial from a second host computer.

selects, as the port of the second storage, a target port which is utilized for receiving an access request from said host computer to a volume of said first storage device, and

sets up second access restriction information based on said first access restriction information of a port of said first storage device to which a volume, of which the port is utilized for an access, is assigned so that said first host computer is permitted to access said first storage device via the target port of said second storage device, while said second host computer is not permitted to access said first storage device via the target port of said second storage device.

14. (Previously Presented) An access restriction information setting system having first and second storage devices which determine whether or not an access request to a volume is permitted in accordance with access restriction information which is set up on a port which receives the request, a plurality of host computers which transmit access requests to said first and second storage devices through a first network, and an access restriction information setting device which is connected to said first and second storage devices through a second network, wherein

said access restriction information setting apparatus has a network I/F unit which is utilized for connecting to said second network, and a calculation unit, and said calculation unit:

obtains first access restriction information and information of a volume which are set up on each port of said first storage device, and attribute information including a port type and a status of utilization of each port of said second storage device, from said second storage device, through said network I/F unit, said first access restriction information including information of access permission from a first host computer and access denial from a second host computer,

selects a target port of said second storage device which is utilized for reception of an access request to a volume of said first storage device from said host computer, and

sets up, on the target port of said second storage device which is selected in said selecting step, second access restriction information based on said first access restriction information of a port of said first storage device to which a volume, of which the port is utilized for an access, is assigned so that said first host computer is permitted to access said first storage device via the target port of said second storage device, while said second host computer is not permitted to access said first storage device via the target port of said second storage device.

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15. (Previously Presented) An access restriction information setting system having first and second storage devices which determine whether or not an access request is permitted to a volume in accordance with access restriction information which is set up on a port which receives the request, a plurality of host computers which transmit access requests to said first and second storage devices, a Fibre Channel switch which configures a Fibre Channel network which connects between said first and second storage devices and said host computers, a management server which sets up access restriction information on said first and second storage devices, and a LAN which connects between said first and second storage devices and said management server, wherein

said first and second storage devices have a FC I/F which connects to said Fibre Channel switch, and

said management server

has a LAN I/F unit which is utilized for connecting to said LAN, and a calculation unit. and

said calculation unit:

obtains first access restriction information and information of a volume which are set up on each port of the FC I/F of said first storage device from said first storage device, and attribute information including a port type and a status of utilization of each port of the FC I/F of said second storage device, from said second storage device, through said LAN I/F unit, said first access restriction information

including information of access permission from a first host computer and access denial from a second host computer.

selects a target port of said second storage device of a FC I/F of said second storage device which is utilized for an access to a volume of said first storage device, on the basis of attribute information of each port of the FC I/F of said second storage device, which is obtained as above, and

sets up, on the target port of the FC I/F of said second storage device which is selected in said selecting step, second access restriction information based on said first access restriction information of a port of said first storage device to which a volume, of which the port is utilized for an access, is assigned so that the first host computer is permitted to access said first storage device via said target port of said second storage device, while said second host computer is not permitted to access said first storage device via the target port of said second storage device.

16. (Canceled).

 (Previously Presented) An access restriction information setting apparatus according to claim 13, wherein

said calculation unit specifies the first access restriction information which is set up on each port oft said first storage device and information of the volume, by obtaining a port of one of said host computers which is utilized for an access to the

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volume of said first storage device and information of the port of said first storage device, from said one host computer through said second network.

18. (Original) An access restriction information setting apparatus according to claim

13, wherein

said calculation unit

changes a port of said first storage device which is associated with each mount point of a file system of said host computer and a volume which is assigned to the port, to a port of said second storage device which is utilized for an access to the volume and a volume which is defined on the port.

 (Previously Presented) An access restriction information setting apparatus according to claim 13, wherein

said first storage device sets up the first access restriction information on each port, by use of a first management table on which an information identifier of a volume and a source port of an access to be permitted are listed with a LUN unit with respect to each port, and

said second storage device sets up the second access restriction information on each port, by use of a second management table on which a LUN and an identifier of a volume are listed with a group unit of source ports of an access to be permitted with respect to each port, and

said calculation unit

obtains said first management table, and prepares said second management table as to each port of said second storage device which is selected as above, on the basis of a listed content of said first management table, and updates said second management table of said second storage device.

 (Previously Presented) An access restriction information setting apparatus according to claim 13, wherein

in a case that said host computers have a plurality of paths which are used for an access to the same volume, a process of setting up said access restriction information to a volume is carried out at least twice separately to said plurality of paths.

21. (Previously Presented) An access restriction information setting method according to Claim 7, wherein

the access control information sets up for each path as to whether the access is permitted or not permitted.